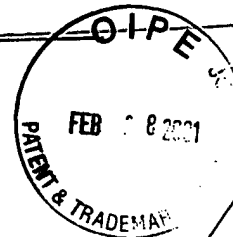




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<110> Sedivy, John
Kolch, Walter
Yeung, Kam Chi

<120> Kinase Inhibitors and Methods of Use in Screening Assays and Modulation of Cell Proliferation and Growth

<130> 3564/1010

<140> 09/654,281

<141> 2000-09-01

<150> 60/151,992

<151> 1999-09-01

<160> 11

<170> PatentIn version 3.0

<210> 1

<211> 42

<212> PRT

<213> Artificial/Unknown

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 <222> (39)..(41)
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Xaa	Xaa	Glu	Xaa	Xaa	His	Xaa	Tyr	Xaa	Xaa	Xaa	Xaa	Pro	Xaa	Gly	Xaa
		20						25					30		
His	Arg	Xaa	Val	Xaa	Glx	Xaa	Xaa	Xaa	Gln						
		35						40							

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 <213> Homo sapiens

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Met	Pro	Val	Asp	Leu	Ser	Lys	Trp	Ser	Gly	Pro	Leu	Ser	Leu	Gln	Glu
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Val	Asp	Glu	Gln	Pro	Gln	His	Pro	Leu	His	Val	Thr	Tyr	Ala	Gly	Ala
		20						25					30		
Ala	Val	Asp	Glu	Leu	Gly	Lys	Val	Leu	Thr	Pro	Thr	Gln	Val	Lys	Asn
		35					40					45			
Arg	Pro	Thr	Ser	Ile	Ser	Trp	Asp	Gly	Leu	Asp	Ser	Gly	Lys	Leu	Tyr
	50					55					60				
Thr	Leu	Val	Leu	Thr	Asp	Pro	Asp	Ala	Pro	Ser	Arg	Lys	Asp	Pro	Lys
65					70					75					80
Tyr	Arg	Glu	Trp	His	His	Phe	Leu	Val	Val	Asn	Met	Lys	Gly	Asn	Asp
				85					90					95	
Ile	Ser	Ser	Gly	Thr	Val	Leu	Ser	Asp	Tyr	Val	Gly	Ser	Gly	Pro	Pro
			100					105					110		
Lys	Gly	Thr	Gly	Leu	His	Arg	Tyr	Val	Trp	Leu	Val	Tyr	Glu	Gln	Asp
		115					120					125			
Arg	Pro	Leu	Lys	Cys	Asp	Glu	Pro	Ile	Leu	Ser	Asn	Arg	Ser	Gly	Lys
	130					135					140				
His	Arg	Gly	Lys	Phe	Lys	Val	Ala	Ser	Phe	Arg	Lys	Lys	Tyr	Glu	Leu

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 Arg Ala Pro Val Ala Gly Thr Cys Tyr Gln Ala Glu Trp Lys Lys Tyr
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 Val Pro Lys Leu Tyr Glu Gln Leu Ser Gly Lys
 180 185

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 <221> UNSURE
 <222> (150)..(150)
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 Val Asp Glu Pro Pro Gln His Ala Leu Arg Val Asp Tyr Ala Gly Val
 20 25 30
 Thr Val Asp Glu Leu Gly Lys Val Leu Thr Pro Thr Gln Val Met Asn
 35 40 45
 Arg Pro Ser Ser Ile Ser Trp Asp Gly Leu Asp Pro Gly Lys Leu Tyr
 50 55 60
 Thr Leu Val Leu Thr Asp Pro Asp Ala Pro Ser Arg Lys Asp Pro Lys
 65 70 75 80
 Phe Arg Glu Trp His His Phe Leu Val Val Asn Met Lys Gly Asn Asp
 85 90 95
 Ile Ser Ser Gly Thr Val Leu Ser Asp Tyr Val Gly Ser Gly Pro Pro
 100 105 110
 Ser Gly Thr Ser Ile His Arg Tyr Val Trp Leu Val Tyr Glu Gln Glu
 115 120 125
 Gln Pro Leu Ser Cys Asp Glu Pro Ile Leu Ser Asn Lys Ser Gly Asp
 130 135 140
 Asn Arg Gly Lys Phe Xaa Val Glu Thr Phe Arg Lys Lys Tyr Asn Leu
 145 150 155 160
 Gly Ala Pro Val Ala Gly Thr Cys Tyr Gln Ala Glu Trp Asp Asp Tyr

165 170 175
 Val Pro Lys Leu Tyr Glu Gln Leu Ser Gly Lys
 180 185
 <210> 4
 <211> 187
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 <213> Drosophila
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 Ile Leu Lys Thr Cys Pro Ala Thr Leu Leu Thr Val Thr Tyr Gly Gly
 20 25 30
 Gly Gln Val Val Asp Val Gly Gly Glu Leu Thr Pro Thr Gln Val Gln
 35 40 45
 Ser Gln Pro Lys Val Lys Trp Asp Ala Asp Pro Asn Ala Phe Tyr Thr
 50 55 60
 Leu Leu Leu Thr Asp Pro Asp Ala Pro Ser Arg Lys Glu Pro Lys Phe
 65 70 75 80
 Arg Glu Trp His His Trp Leu Val Val Asn Ile Pro Gly Asn Gln Val
 85 90 95
 Glu Asn Gly Val Val Leu Thr Glu Tyr Val Gly Ala Gly Pro Pro Gln
 100 105 110
 Gly Thr Gly Leu His Arg Tyr Val Phe Ile Val Phe Lys Gln Pro Gln
 115 120 125
 Lys Leu Thr Cys Asn Glu Pro Lys Ile Pro Lys Thr Ser Gly Asp Lys
 130 135 140
 Arg Ala Asn Phe Ser Thr Ser Lys Phe Met Ser Lys Tyr Lys Leu Gly
 145 150 155 160
 Asp Pro Ile Ala Gly Asn Phe Phe Gln Ala Gln Trp Asp Asp Tyr Val
 165 170 175
 Pro Lys Leu Tyr Lys Gln Leu Ser Gly Lys Lys
 180 185
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 <211> 220
 <212> PRT
 <213> C. elegans

<400> 5

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Met Val Val Leu Val Thr Arg Ser Leu Leu Pro Ala Leu Phe Phe Ala
1          5          10          15
Ser Arg Ala Pro Phe Ala Ala Ala Thr Thr Ser Ala Arg Phe Gln Arg
20          25          30
Gly Leu Ala Thr Met Ala Ala Glu Ala Phe Thr Lys His Glu Val Ile
35          40          45
Pro Asp Val Leu Ala Ser Asn Pro Pro Ser Lys Val Val Ser Val Lys
50          55          60
Phe Asn Ser Gly Val Glu Ala Asn Leu Gly Asn Val Leu Thr Pro Thr
65          70          75          80
Gln Val Lys Asp Thr Pro Glu Val Lys Trp Asp Ala Glu Pro Gly Ala
85          90          95
Leu Tyr Thr Leu Thr Lys Thr Asp Pro Asp Ala Pro Ser Arg Lys Glu
100         105         110
Pro Thr Tyr Arg Glu Trp His His Trp Leu Val Val Asn Ile Pro Gly
115         120         125
Asn Asp Ile Ala Lys Gly Asp Thr Leu Ser Glu Tyr Ile Gly Ala Gly
130         135         140
Pro Pro Lys Thr Gly Leu His Arg Tyr Val Tyr Leu Ile Tyr Lys Gln
145         150         155         160
Ser Gly Arg Ile Glu Asp Ala Glu His Gly Arg Leu Thr Asn Thr Ser
165         170         175
Gly Asp Lys Arg Gly Gly Trp Lys Ala Ala Asp Phe Val Ala Lys His
180         185         190
Lys Leu Gly Ala Pro Val Phe Gly Asn Leu Phe Gln Ala Glu Tyr Asp
195         200         205
Asp Tyr Val Pro Ile Leu Asn Lys Gln Leu Gly Ala
210         215         220

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<211> 181

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<213> Antirrhinum-CEN

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Gly Asp Val Val Asp His Phe Thr Ser Thr Val Lys Met Ser Val Ile
20 25 30

Tyr Asn Ser Asn Asn Ser Ile Lys His Val Tyr Asn Gly His Glu Leu
35 40 45

Phe Pro Ser Ala Val Thr Ser Thr Pro Arg Val Glu Val His Gly Gly
50 55 60

Asp Met Arg Ser Phe Phe Thr Leu Ile Met Thr Asp Pro Asp Val Pro
65 70 75 80

Gly Pro Ser Asp Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr
85 90 95

Asp Ile Pro Gly Thr Thr Asp Ser Ser Phe Gly Lys Glu Val Val Ser
100 105 110

Tyr Glu Met Pro Arg Pro Asn Ile Gly Ile His Arg Phe Val Phe Leu
115 120 125

Leu Phe Lys Gln Lys Lys Arg Gly Gln Ala Met Leu Ser Pro Pro Val
130 135 140

Val Cys Arg Asp Gly Phe Asn Thr Arg Lys Phe Thr Gln Glu Asn Glu
145 150 155 160

Leu Gly Leu Pro Val Ala Ala Val Phe Phe Asn Cys Gln Arg Glu Thr
165 170 175

Ala Ala Arg Arg Arg
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<213> Aradopsis-TFL1

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Val Val Gly Asp Val Leu Asp Phe Phe Thr Pro Thr Thr Lys Met Asn
20 25 30

Val Ser Tyr Asn Lys Lys Gln Val Asn Gly His Glu Leu Phe Pro Ser
35 40 45

Ser Val Ser Ser Lys Pro Arg Val Glu Ile His Gly Gly Asp Leu Arg
 50 55 60
 Ser Phe Phe Thr Leu Val Met Ile Asp Pro Asp Val Pro Gly Pro Ser
 65 70 75 80
 Asp Pro Phe Leu Lys Glu His Leu His Trp Ile Val Thr Asn Ile Pro
 85 90 95
 Gly Thr Thr Asp Ala Thr Phe Gly Lys Glu Val Val Ser Tyr Glu Leu
 100 105 110
 Pro Arg Pro Ser Ile Gly Ile His Arg Phe Val Phe Val Leu Phe Arg
 115 120 125
 Gln Lys Gln Arg Arg Val Ile Phe Pro Asn Ile Pro Ser Arg Asp His
 130 135 140
 Phe Asn Thr Arg Lys Phe Ala Val Glu Tyr Asp Leu Gly Leu Pro Val
 145 150 155 160
 Ala Ala Val Phe Phe Asn Ala Gln Arg Glu Thr Ala Ala Arg Lys Arg
 165 170 175

<210> 8
 <211> 219
 <212> PRT
 <213> Yeast

<400> 8

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 Lys His Gly Ile Leu Glu Asp Val Ile His Asp Thr Ser Phe Gln Pro
 20 25 30
 Ser Gly Ile Leu Ala Val Glu Tyr Ser Ser Ser Ala Pro Val Ala Met
 35 40 45
 Gly Asn Thr Leu Pro Thr Glu Lys Ala Arg Ser Lys Pro Gln Phe Gln
 50 55 60
 Phe Thr Phe Asn Lys Gln Met Gln Lys Ser Val Pro Gln Ala Asn Ala
 65 70 75 80
 Tyr Val Pro Gln Asp Asp Asp Leu Phe Thr Leu Val Met Thr Asp Pro
 85 90 95
 Asp Ala Pro Ser Lys Thr Asp His Lys Trp Ser Glu Phe Cys His Leu
 100 105 110

Val Glu Cys Asp Leu Lys Leu Leu Asn Glu Ala Thr His Glu Thr Ser
 115 120 125
 Gly Ala Thr Glu Phe Phe Ala Ser Glu Phe Asn Thr Lys Gly Ser Asn
 130 135 140
 Thr Leu Ile Glu Tyr Met Gly Pro Ala Pro Pro Lys Gly Ser Gly Pro
 145 150 155 160
 His Arg Tyr Val Phe Leu Leu Tyr Lys Gln Pro Lys Gly Val Asp Ser
 165 170 175
 Ser Lys Phe Ser Lys Ile Lys Asp Arg Pro Asn Trp Gly Tyr Gly Thr
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 Pro Ala Thr Gly Val Gly Lys Trp Ala Lys Glu Asn Asn Leu Gln Leu
 195 200 205
 Val Ala Ser Asn Phe Phe Tyr Ala Glu Thr Lys
 210 215

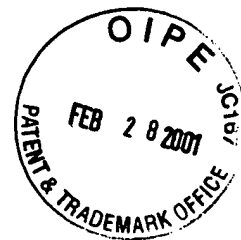
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 catcatttcc tgggtggtcaa catgaagggc aatgacatca gcagtggcac agtcctctcc 12
 0
 gattatgtgg gctcggggcc tccaagggc acaggcctgc accgctatgt ctggctggtt 18
 0
 tacgagcag 18
 9

<210> 10
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B2
conclude
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tgantca
7

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ggggactttc c
1

1